## STIC Biotechnology Systems Branch

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	10/553.459
Source:	', IFWP
Date Processed by STIC:	1/19/07
•	7-7-

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<a href="http://www.uspto.gov/ebc/efs/downloads/documents.htm">http://www.uspto.gov/ebc/efs/downloads/documents.htm</a>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
   U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street,
   Alexandria, VA 22314

Revised 01/10/06

## Raw Sequence Listing Error Summary

	1 1100	
ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 10/553, 459	
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6Patentin 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7Skipped Sequences (OLD RULES)	Sequence(s)missing. If intentional, please insert the following lines for each skipped sequence:  (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  This sequence is intentionally skipped  Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing.  Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)	
11Use of <220>	Sequence(s)missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown. Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules	
Patentin 2.0 "bug"	Please do not use "Copy to Disk" function of Patentln version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid	

AMC - STIC Systems Branch - 03/02/06



Here headings. Do not include page numbers. do not include IFWP see m 1-4 DATE: 01/23/2007 RAW SEQUENCE LISTING TIME: 16:44:18 PATENT APPLICATION: US/10/553,459 see item 4 on Enor Juman Input Set : A:\PTO.AMC.txt Output Set: N:\CRF4\01232007\J553459.raw W--> 1 WO 2004/092396 Lelete at beginning of the W--> 2 PCT/US2004/011622 file file **Does Not Comply** Corrected Diskette Needed Hampton, Garret Hay, Carl f on Enor hunnay Sheet Huang, Ying Jakubczak, John Phipps, Sandrina W--> 10 <120> TITLE OF INVENTION: FLAP ENDONUCLEASE 1 (FEN1) REGULATORY SEQUENCES AND USES THEREOF Suggestien: Consult Sequence Rules for valid format 12 <130> FILE REFERENCE: GTIN-021WO C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/553,459 C--> 14 <141> CURRENT FILING DATE: 2005-10-17 14 <150> PRIOR APPLICATION NUMBER: 60/463,148 15 <151> PRIOR FILING DATE: 2003-04-15 W--> 16 <160> NUMBER OF SEQ ID: 8 17 <170> SOFTWARE: FastSEQ for Windows Version 4.0 **ERRORED SEQUENCES** 19 <210> SEQ ID NO: 1 20 <211> LENGTH: 2259 21 <212> TYPE: DNA 22 <213> ORGANISM: H. sapiens W--> 23 <400> SEQUENCE: 1 24 catgcggtta tcaaggagcc tggtgctgcc gtgaaacaga ggctgatttt agcccggaaa 60 25 tgtagctgca gatcaatggc ccttattagc attttctgag gccaataatc tgaccactat 120 26 gaaaacgtga ctaaaggtac gaactetetg cetgagaaaa accacataca agaaaaagtt 180 27 tgcctacaat ttccggaget ttgtggacca gtgtctatag acaccaaget gagaaccccc 240 28 gctataagtc actgactggt ggtacccaga tctcaatatc ttttttttt gacggagtct 300 29 cattttttgg acggcgtctc actctgtcgc ccgggctgga gggcagtggc acgatctcgg 360 malid nucleic acid designators 30 ctcactgcaa cctctgcctc ccgggttcta gagattctca tacctcagcc tctcgagtag 420 31 ctgggactat aggattacag gtgcgcacca ccacatctaa tttttgtatt tttagtagag 480 32 atggggtttt gccatgctgg ccaggatggt cttgaattcc tgacctcagg tgatctgcct 540 33 gcctcggcct cccaaagtac tgagattaca ggtgtgagtt gccgcgccca ggctcaattt 600 34 ttttttttt ccagacagtc ttgctctatc gcccaggctg gagtgcctgg agtgcagtgg 660 35 tgccaacteg geteactgca ageteegeet tetgggttea agtgattate etgeeteage 720 36 ctcccgagca gctgggatta caggtgtgaa ccaccatgcc cggctaattt tttgtatttt 780
B--> 37 taggagagac agggtttcac cttgctggcc aggctggt@t tgaacttctg acctcctgat 840 38 ccgctcgcct cagcctccca aagtgctggg attacaggag tgaaccaccg cgcctggccc 900 39 tcaatttcta attcagtatt ttcctcacta cctatgctat tatggaatct tgtgagctat 960 B--> 40 ggtcaagaca ttcaagttct ggttctgagt aatctgagfc tgagtaaagc gactgtaata 1020 41 tctatttcac agaactgaaa aataagaaag atgatgaatc aaagcatcta gtgcctagca 1080

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/553,459

DATE: 01/23/2007 TIME: 16:44:18

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01232007\J553459.raw

```
42 gggagtattt tgctcaacag gtatttgctt ccttcctaaq gctgtaggga agatgatgag 1140
B--> 43 ataatgtctt ttatgaaaga gggctgtaa cgtaaagatc tgtacaaatg ttaacttcat 1200
                                                                                           involved
     44 tgtcaccggt cagccaatgc ttctaaaatc cagaacataa caactctaga gaagtaaact 1260
     45 gcccccattg ttctgagaca ctggaattca attcagtaaa caatcacggc ccccttcccc 1320
     46 caaaatgata aagacaatca ctgccattta ttgagcttcc aattacgggc cctctgtttg 1380
     47 gcactgagaa tacaaagatg aatagacatc atcccagagc tagatgcgcg tcagacggtg 1440
     48 gtcactagga ggcgtggccg aaaacaaaga agtccatgga acgtggccag agatctgtac 1500
     49 agaggetgtg ggegeteeta ggaaagtetg gecaagtgee tgagagttgg aagtgettea 1560
     50 ccaataaaca tttgcccagg gcattgtagg atgggcacgg gttcggcaga agaactttcc 1620
     51 aaataaagat aacacaccac cgataacaga qatatacaaa ctqqaaqqta ttcaaaattc 1680
B--> 52 gcdqcacgcc tctcgccctt agaaatcgcg agctgagaaa cctaaggagt tcatggcaag 1740
     53 gggetteece ettececace etteagecea ageeggaggt tecaggageg tetagecete 1800
     54 tggatetecg gegtetgagg agataagege ggtgtgggte agaceeegag gggteetege 1860
B--> 55 atctccgtct ggaactcccc tcaacgctct caccattttg ccccgcgaag getaatccgc 1920
     56 cgctccgcca ccggaagaac acgtcgacag gagcaggcgc ctagcacaac cggaaaagga 1980
     57 agtgcctccg gcgcaagtgg cattgaggga cttgtagtcc tgcgatttcg ggtgtagagg 2040
     58 gagcaggggc ctgcggggac ctggtgtggg tggagtgggg acaagcggtg gagaagggta 2100
B--> 59/1
                              delete
E--> 6/2 WO 2004/092396
E--> 65 Pct/us2004/01162
B--> 66 2
B--> 69 cgccagggtc gctgagagac tctgttctcc ctggagggac tggttgccat gagagcagcc 2160
B--> 70 gtctgagggg acgcagcctg cactacgcgc cccaagaggc tgtgcgtggc gagcaggtca 2220
B--> 71 cgtgacggga gcgcgggctt tggaaggcgg ctgaacgtc
                                                                           -) 2259
E--> 72 2259-
```

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RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/553,459 DATE: 01/23/2007 TIME: 16:44:19

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01232007\J553459.raw

The rules require that a line not exceed 72 characters in length. This includes spaces. Invalid Line Length:

Seq#:1; Line(s) 71

<210> 8
<211> 270

2

WO 2004/092396

PCT/US2004/011
622

<212> DNA

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/553,459
DATE: 01/23/2007
TIME: 16:44:19

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01232007\J553459.raw

```
L:1 M:259 W: Allowed number of lines exceeded, (1) GENERAL INFORMATION:
L:2 M:259 W: Allowed number of lines exceeded, (1) GENERAL INFORMATION:
L:10 M:283 W: Missing Blank Line separator, <120> field identifier
L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:16 M:283 W: Missing Blank Line separator, <160> field identifier
L:23 M:283 W: Missing Blank Line separator, <400> field identifier
L:37 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:40 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:43 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:52 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:55 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:59 M:254 E: No. of Bases conflict, this line has no nucleotides.
M:254 Repeated in SeqNo=1
L:62 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:6
L:62 M:112 C: (48) String data converted to lower case,
 L:65 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:7
 M:112 Repeated in SeqNo=1
 L:72 M:252 E: No. of Seq. differs, <211> LENGTH:Input:2259 Found:2269 SEQ:1
 L:78 M:283 W: Missing Blank Line separator, <400> field identifier
 L:87 M:283 W: Missing Blank Line separator, <400> field identifier
 L:97 M:283 W: Missing Blank Line separator, <400> field identifier
 L:103 M:283 W: Missing Blank Line separator, <400> field identifier
 L:109 M:283 W: Missing Blank Line separator, <400> field identifier
 L:115 M:283 W: Missing Blank Line separator, <400> field identifier
 L:119 M:259 W: Allowed number of lines exceeded, <211> LENGTH:
L:122 M:259 W: Allowed number of lines exceeded, <211> LENGTH:
L:125 M:259 W: Allowed number of lines exceeded, <211> LENGTH:
 L:126 M:259 W: Allowed number of lines exceeded, <211> LENGTH:
 L:131 M:283 W: Missing Blank Line separator, <400> field identifier
```